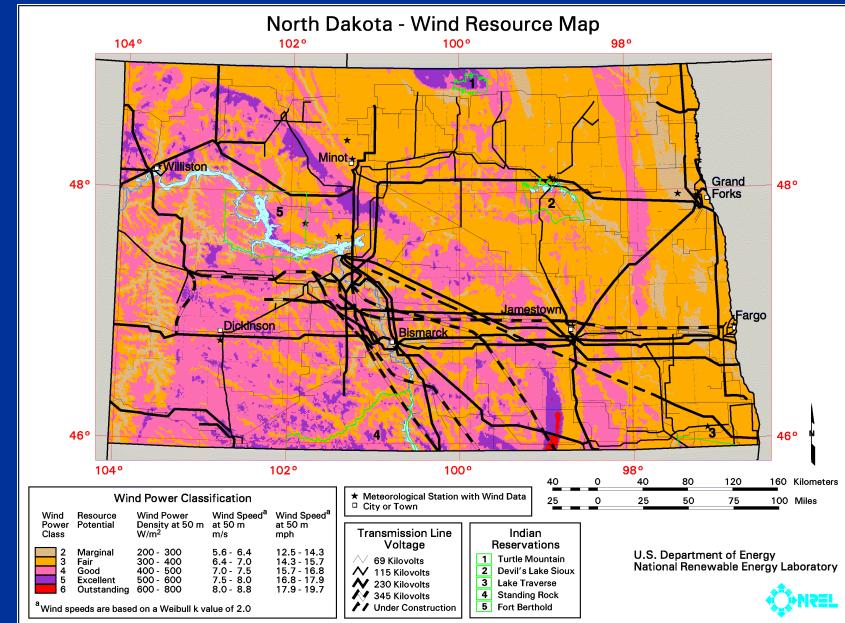
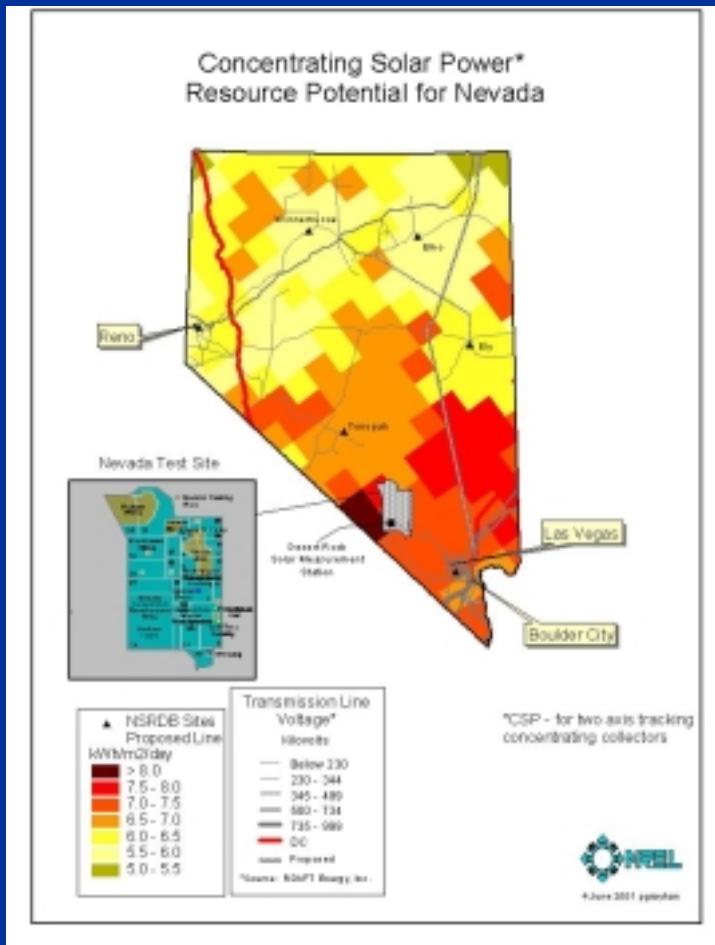


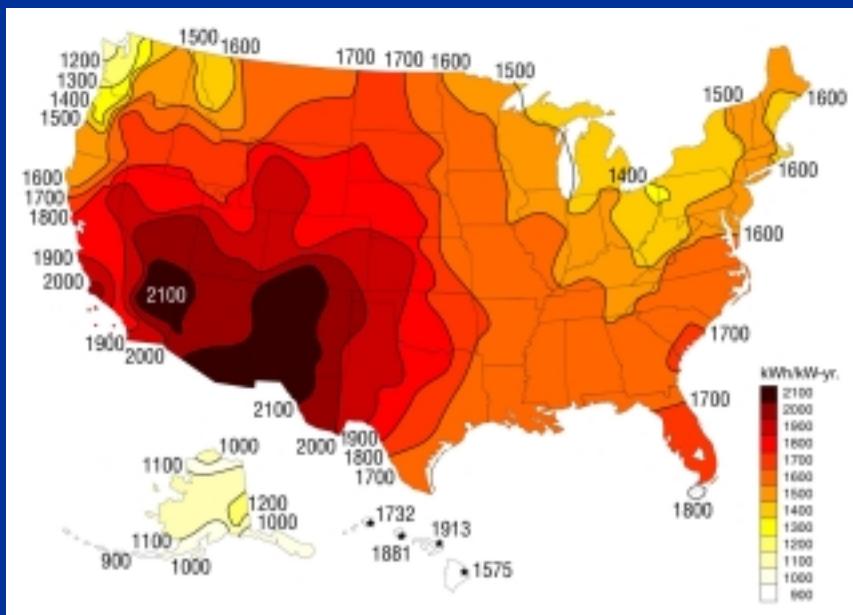


GIS Supports Analysis of Infrastructure Needed to Access Resources

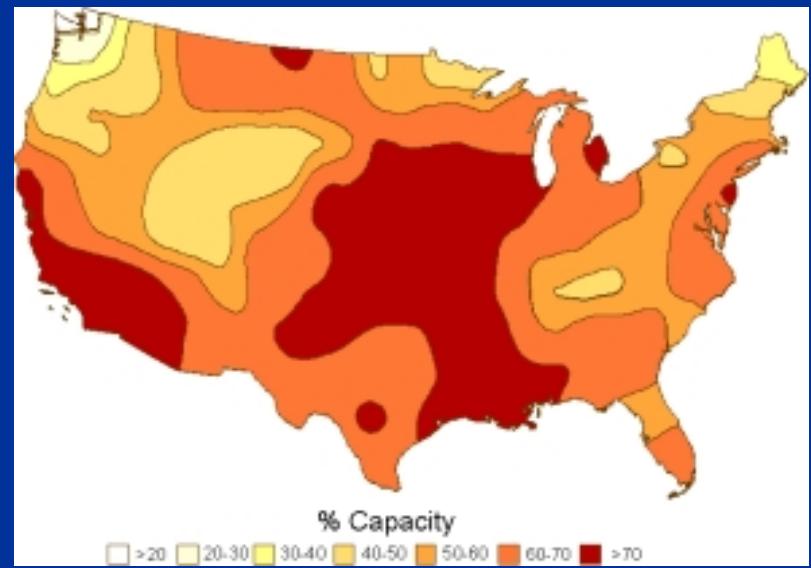


Examples of Value-Added Products

PV Energy
kWh/kW-yr



Effective Load
Carrying Capacity



Source: Christy Herig (NREL) and Richard Perez (SUNY/Albany)



Estimating PV Production

PVWATTS - A Performance Calculator for Grid-Connected PV Systems - Netscape

A Performance Calculator for Grid-Connected PV Systems

VERSION 2

PVWATTS v.2 can be used for locations within the 48 Contiguous States, Alaska and Hawaii. Researchers at the National Renewable Energy Laboratory developed PVWATTS to permit non-experts to quickly obtain performance estimates for grid-connected PV systems.

Document Done

Output is monthly energy production and value of energy from grid-connected PV systems for any specified region

AC Energy and Cost Savings

Month	Energy (kWh)	Energy Value (\$)
1	579	43.22
2	538	40.44
3	657	49.38
4	623	46.82
5	654	49.15
6	638	47.95

PV System Specifications

AC Rating	4.0 kW
Array Type:	Fixed Tilt

Energy Specifications

Cost of Electricity:	7.516 ¢/kWh	
Year	7299	548.99